#4

SEQUENCE LISTING

<110> Robert E. Klem

<120> METHODS AND COMPOSITIONS FOR TREATING A CELL-PROLIFERATIVE DISORDER USING CRE DECOY OLIGOMERS, BCL-2 ANTISENSE OLIGOMERS, AND HYBRID OLIGOMERS THEREOF

<130> 10412-022-999

<140> 10/053,645
<141> 2002-01-22

<150> 60/263,244
<151> 2001-01-22

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Oligionucleotide

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<210> 17
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<400> 17
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<210> 18
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<400> 19
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1 5 10 15

aag tac atc cat tat aag ctg tcg cag agg ggc tac gag tgg gat gcg 96
Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala
20 25 30

gga gat gtg ggc gcc gcg ccc ccg ggg gcc gcc ccc gca ccg ggc atc 144
Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile
35 40 45

ttc tcc tcc cag ccc ggg cac acg ccc cat cca gcc gca tcc cgc gac 192
Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
50 55 60

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Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala
65 70 75 80

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Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Ala
85 90 95

ctc cgc caa gcc ggc gac gac ttc tcc cgc cgc tac cgc ggc gac ttc 336
Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Gly Asp Phe
100 105 110

gcc gag atg tcc agc cag ctg cac ctg acg ccc ttc acc gcg cgg gga 384
Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly
115 120 125

cgc ttt gcc acg gtg gtg gag gag ctc ttc agg gac ggg gtg aac tgg 432
Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp
130 135 140

ggg agg att gtg gcc ttc ttt gag ttc ggt ggg gtc atg tgt gtg gag 480
Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu
145 150 155 160

agc gtc aac cgg gag atg tcg ccc ctg gtg gac aac atc gcc ctg tgg 528
Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp
165 170 175

atg act gag tac ctg aac cgg cac ctg cac acc tgg atc cag gat aac 576
Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn
180 185 190

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gga ggc tgg gat gcc ttt gtg gaa ctg tac ggc ccc agc atg cgg cct   624
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        195                 200                 205

ctg ttt gat ttc tcc tgg ctg tct ctg aag act ctg ctc agt ttg gcc   672
Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala
    210                 215                 220

ctg gtg gga gct tgc atc acc ctg ggt gcc tat ctg agc cac aag       717
Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr Leu Ser His Lys
225                 230                 235
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<210> 21
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<212> PRT
<213> Homo Sapiens

<400> 21

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Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile
        35                  40                  45
Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
    50                  55                  60
Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala
65                  70                  75                  80
Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Ala
                85                  90                  95
Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Gly Asp Phe
            100                 105                 110
Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly
        115                 120                 125
Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp
    130                 135                 140
Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu
145                 150                 155                 160
Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp
                165                 170                 175
Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn
            180                 185                 190
Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Met Arg Pro
        195                 200                 205
Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala
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Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala
20 25 30

gga gat gtg ggc gcc gcg ccc ccg ggg gcc gcc ccc gca ccg ggc atc 144
Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile
35 40 45

ttc tcc tcc cag ccc ggg cac acg ccc cat cca gcc gca tcc cgc gac 192
Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
50 55 60

ccg gtc gcc agg acc tcg ccg ctg cag acc ccg gct gcc ccc ggc gcc 240
Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala
65 70 75 80

gcc gcg ggg cct gcg ctc agc ccg gtg cca cct gtg gtc cac ctg gcc 288
Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Ala
85 90 95

ctc cgc caa gcc ggc gac gac ttc tcc cgc cgc tac cgc ggc gac ttc 336
Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Gly Asp Phe
100 105 110

gcc gag atg tcc agc cag ctg cac ctg acg ccc ttc acc gcg cgg gga 384
Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly
115 120 125

cgc ttt gcc acg gtg gtg gag gag ctc ttc agg gac ggg gtg aac tgg 432
Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp
130 135 140

ggg agg att gtg gcc ttc ttt gag ttc ggt ggg gtc atg tgt gtg gag 480
Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu
145 150 155 160

agc gtc aac cgg gag atg tcg ccc ctg gtg gac aac atc gcc ctg tgg 528
Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp
165 170 175

atg act gag tac ctg aac cgg cac ctg cac acc tgg atc cag gat aac 576
Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn
180 185 190

gga ggc tgg gta ggt gca tct ggt gat gtg agt ctg ggc 615
Gly Gly Trp Val Gly Ala Ser Gly Asp Val Ser Leu Gly
195 200 205

<210> 23
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<213> Homo Sapiens

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35 40 45
Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
50 55 60
Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala
65 70 75 80
Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Ala
85 90 95
Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Gly Asp Phe
100 105 110
Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly
115 120 125
Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp
130 135 140
Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu
145 150 155 160
Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp
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180 185 190
Gly Gly Trp Val Gly Ala Ser Gly Asp Val Ser Leu Gly
195 200 205

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<210> 29
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tgacgta 67

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Oligionucleotide

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<210> 33
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<210> 36
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<220>
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Oligionucleotide

<400> 36
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<210> 37
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<220>
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<400> 37
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<210> 38
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<220>
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<220>
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